

1645

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/300,425B

DATE: 09/26/2000
 TIME: 15:11:05

ENTERED

Input Set : A:\Sch17331.app
 Output Set: N:\CRF3\09262000\I300425B.raw

3 <110> APPLICANT: NERI, Dario
 4 TARLI, Lorenzo
 5 VITI, Francesca
 6 BIRCHLER, Manfred
 8 <120> TITLE OF INVENTION: SPECIFIC BINDING MOLECULES FOR SCINTIGRAPHY, CONJUGATES
 9 CONTAINING THEM AND THERAPEUTIC METHOD FOR TREATMENT OF
 10 ANGIOGENESIS
 12 <130> FILE REFERENCE: SCH-1733P1
 14 <140> CURRENT APPLICATION NUMBER: 09/300,425B
 15 <141> CURRENT FILING DATE: 1999-04-28
 17 <150> PRIOR APPLICATION NUMBER: 09/075,338
 18 <151> PRIOR FILING DATE: 1998-05-11
 20 <160> NUMBER OF SEQ ID NOS: 34
 22 <170> SOFTWARE: PatentIn Ver. 2.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 24
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Artificial Sequence
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
 32 <400> SEQUENCE: 1
 33 gcggcccagc cggccatggc cgag 24
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 54
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Artificial Sequence
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
 46 represent a, t, c, g, other or unknown
 48 <400> SEQUENCE: 2
 W--> 49 gagcctggcg gacccagctc atnnnnnnnn ngctaaaggt gaatccagag gctg 54
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 23
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
 60 <400> SEQUENCE: 3
 61 atgagctggg tccgccagc tcc 23
 64 <210> SEQ ID NO: 4
 65 <211> LENGTH: 60
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial Sequence
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: Description of Artificial Sequence: primer

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72 <220> FEATURE:
73 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
74     represent a, t, c, g, other or unknown
76 <400> SEQUENCE: 4
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80 <210> SEQ ID NO: 5
81 <211> LENGTH: 24
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
88 <400> SEQUENCE: 5
89 acatactacg cagactccgt gaag 24
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 53
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
100 <400> SEQUENCE: 6
101 tcattctcga cttgcggccg ctttgatttc caccttggtc ccttggccga acg 53
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 47
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
112 <220> FEATURE:
113 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
114     represent a, t, c, g, other or unknown
116 <400> SEQUENCE: 7
W--> 117 gttttctgtg gtaccaggct aammngctgc tgctaact ctgactg 47
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 23
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
128 <400> SEQUENCE: 8
129 ttagcctggt accagcagaa acc 23
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 46
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
140 <220> FEATURE:
141 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
142     represent a, t, c, g, other or unknown

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144 <400> SEQUENCE: 9
W--> 145 gccagtggcc ctgctggatg cmnnatagat gaggagcctg ggagcc 46
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149 <211> LENGTH: 21
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
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157 gcatccagca gggccactgg c 21
160 <210> SEQ ID NO: 11
161 <211> LENGTH: 45
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
168 <400> SEQUENCE: 11
169 gcggcccagc atgccatggc cgaggtgcag ctgttggagt ctggg 45
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 55
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
180 <220> FEATURE:
181 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
182 represent a, t, c, g, other or unknown
184 <400> SEQUENCE: 12
W--> 185 ggttccttg cccagtagt caaamnnmnn mnnmnnnttc gcacagtaat atacg 55
188 <210> SEQ ID NO: 13
189 <211> LENGTH: 24
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
196 <400> SEQUENCE: 13
197 gcggcccagc atgccatggc cgag 24
200 <210> SEQ ID NO: 14
201 <211> LENGTH: 66
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
208 <400> SEQUENCE: 14
209 cccgctaccg cactggacc catcgccact cgagacggtg accaggggtc cctggcccca 60
210 gtagtc 66
213 <210> SEQ ID NO: 15
214 <211> LENGTH: 62
215 <212> TYPE: DNA

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216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
221 <400> SEQUENCE: 15
222 gatgggtcca gtggcggtag cgggggcgcg tcgactggcg aaattgtgtt gacgcagtct 60
223 cc 62
226 <210> SEQ ID NO: 16
227 <211> LENGTH: 63
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
234 <220> FEATURE:
235 <223> OTHER INFORMATION: "n" at various positions throughout the sequence
236 represent a, t, c, g, other or unknown
238 <400> SEQUENCE: 16
W--> 239 caccttggtc ccttggcga acgtmnnccg mnnmnnaccm nncgtgtgac agtaatacac 60
240 tgc 63
243 <210> SEQ ID NO: 17
244 <211> LENGTH: 56
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
251 <400> SEQUENCE: 17
252 gattcattct cgacttgcgg ccgctttgat ttccaccttg gtcccttggc cgaacg 56
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 24
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
263 <400> SEQUENCE: 18
264 gatgggtcca gtggcggtag cggg 24
267 <210> SEQ ID NO: 19
268 <211> LENGTH: 116
269 <212> TYPE: PRT
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: H antibody specific
274 for ED-B domain of fibronectin
276 <400> SEQUENCE: 19
277 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
278 1 5 10 15
280 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Phe
281 20 25 30
283 Ser Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
284 35 40 45
286 Ser Ser Ile Ser Gly Ser Ser Gly Thr Thr Tyr Tyr Ala Asp Ser Val

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287          50          55          60
289 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
290 65          70          75          80
292 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
293          85          90          95
295 Ala Lys Pro Phe Pro Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
296          100          105          110
298 Thr Val Ser Ser
299          115
302 <210> SEQ ID NO: 20
303 <211> LENGTH: 14
304 <212> TYPE: PRT
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Description of Artificial Sequence: antibody linker
310 <400> SEQUENCE: 20
311 Gly Asp Gly Ser Ser Gly Gly Ser Gly Ala Ser Thr Gly
312 1          5          10
315 <210> SEQ ID NO: 21
316 <211> LENGTH: 108
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Description of Artificial Sequence: VL antibody
322 specific for ED-B domain of fibronectin
324 <400> SEQUENCE: 21
325 Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
326 1          5          10          15
328 Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
329          20          25          30
331 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
332          35          40          45
334 Ile Tyr Tyr Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
335          50          55          60
337 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
338 65          70          75          80
340 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Thr Gly Arg Ile Pro
341          85          90          95
343 Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
344          100          105
347 <210> SEQ ID NO: 22
348 <211> LENGTH: 16
349 <212> TYPE: PRT
350 <213> ORGANISM: Artificial Sequence
352 <220> FEATURE:
353 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide formula
355 <400> SEQUENCE: 22
356 Glu Gly Ile Pro Ile Phe Glu Asp Phe Val Asp Ser Ser Val Gly Tyr
357 1          5          10          15

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VERIFICATION SUMMARY

DATE: 09/26/2000

PATENT APPLICATION: US/09/300,425B

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Input Set : A:\Sch17331.app

Output Set: N:\CRF3\09262000\I300425B.raw

L:49 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:49 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:49 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:77 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:77 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:77 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:117 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:117 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:117 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:145 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:9
L:145 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:145 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:185 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
L:185 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:12
L:185 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:239 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:16
L:239 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:16
L:239 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16